

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



531 684

(43) International Publication Date
29 April 2004 (29.04.2004)

PCT

(10) International Publication Number
WO 2004/035533 A1

(51) International Patent Classification⁷: C07C 335/04, 275/64, 327/38

(21) International Application Number:
PCT/KR2003/002175

(22) International Filing Date: 17 October 2003 (17.10.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2002-0063414 17 October 2002 (17.10.2002) KR

(71) Applicant (for all designated States except US): DIGITAL BIOTECH CO., LTD. [KR/KR]; 1227, ShinGil-dong, 425-839 AnSan (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): LEE, Jee-Woo [KR/KR]; 27-901, MiSung APT., 408 Apgujung1-dong, GanNam-gu, 135-785 Seoul (KR).

(74) Agent: SHIN, Dong-In; D.I. International Patent Office, 304, Dukam Bldg., 1457-2, Seocho3-dong, Seocho-gu, 137-867 Seoul (KR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

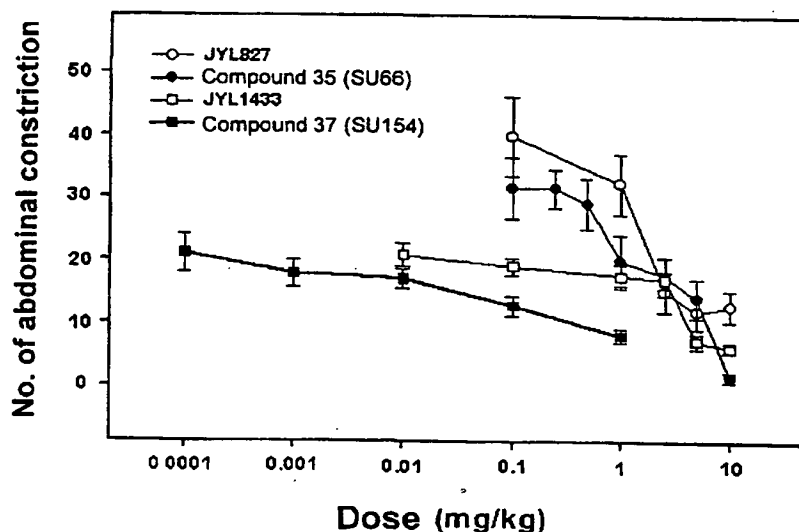
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOVEL N-HYDROXY THIOUREA, UREA AND AMIDE COMPOUNDS AND THE PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME



(57) Abstract: The present invention relates to novel n-hydroxythiourea, urea and amide compounds as a potent vanilloid receptor antagonist and the pharmaceutical compositions comprising the same. The inventive compound can be useful for analgesics to prevent, alleviate or treat pain diseases or inflammatory disease comprising pain, acute pain, chronic pain, neuropathic pain, post-operative pain, migraine, arthralgia, neuropathies, nerve injury, diabetic neuropathy, neurodegeneration, neurotic skin disorder, stroke, urinary bladder hypersensitiveness, irritable bowel syndrome, a respiratory disorder such as asthma or chronic obstructive pulmonary disease, irritation of skin, eye or mucous membrane, fervescence, stomach-duodenal ulcer, inflammatory bowel disease, inflammatory disease and urgent urinary incontinence.